Abstract

A process measuring device including: A first processor 21, which
5   performs a measured value processing with a first algorithm in first
processing cycles; and a second processor 25, which is responsible
for coordination and/or communication tasks.   The second
processor 25 reads, in time intervals which are greater than the first
processing cycle, a control data set from the first processor 21, and
10   executes the first algorithm on the basis of the control data set, in
order to verify the correct functioning of the first processor.

(Fig.   2)

Translation of German words in the drawing

Fig. 1:

5 Change "Sensorelektronik" to --Sensor Electronics--;

change "Hauptelektronik" to --Main Electronics--;

change contents of box 11 to

--Pressure

measuring

10 cell

resistive

or

capacitive--;

15 change contents of box 21 to

--Pressure Processor

(PSP)--;

change contents of box 22 to

--Communications ASIC

20 (LIPS)--; and

change contents of box 23 to

--Display,

On-Site Interaction--.

25 Fig. 2:

Change "Hauptelektronik" to --Main Electronics--;

change "serielle Rohdaten" to --Serial Raw Data--;

change contents of box 21 to

--Pressure Processor

30 (ASIC with DSP)--;

change contents of box 22 to

--Communications

ASIC--;

change "Eingangswerte" to --Input Values--;

change "Zustandsvariablen" to --State Variables--;

5   change "Ausgangswert" to --Output Value--;

change "Befehl: Fehler signalisieren" to

--Command:

Signal Error--; and

change "Selbstüberwachung" to --Self-Monitoring--

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